

## SABIC Innovative Plastics NORYL WCD771 PPE-TPE (Asia Pacific)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyphenylene Ether/PPO

### Material Notes:

Flexible, high tensile elongation, halogen-free extrusion grade intended for evaluation in applications such as cable jacket. Flame retardant performance capable of meeting UL VW-1 requirement. 80C temperature rating as defined by UL 1581. 77 Shore A hardness. Processing typically conducted on standard extrusion equipment. UL 1581 tests conducted on 2.0 mm wire with 0.12 mm x 20 stranded copper conductor.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-WCD771-PPE-TPE-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-WCD771-PPE-TPE-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Melt Flow	11 g/10 min @Load 5.00 kg, Temperature 250 Â°C	11 g/10 min @Load 11.0 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77	77	30S reading; ASTM D2240
Tensile Strength at Break	16.0 MPa	2320 psi	50 mm/min; ISO 527
	17.0 MPa	2470 psi	Type I, 50 mm/min; ASTM D638
	20.0 MPa	2900 psi	UL 1581
	21.0 MPa	3050 psi	after 7days @113Â°C; UL 1581
Elongation at Break	178 %	178 %	50 mm/min; ISO 527
	200 %	200 %	Type I, 50 mm/min; ASTM D638
	220 %	220 %	after 7days @113Â°C; UL 1581
	270 %	270 %	UL 1581
Flexural Modulus	0.0400 GPa	5.80 ksi	12.5 mm/min, 100 mm span; ASTM D790
	0.0500 GPa	7.25 ksi	12.5 mm/min; ISO 178
Heat Distortion	19 % @Load 0.250 kg, Temperature 100 Â°C	19 % @Load 0.551 lb, Temperature 212 Â°F	UL 1581

Thermal Properties	Metric	English	Comments
--------------------	--------	---------	----------

Maximum Service Temperature, Air Thermal Properties	80.0 Å°C Metric	176 Å°F English	UL temperature rating; UL 1581 Comments
Brittleness Temperature	<= -40.0 Å°C	<= -40.0 Å°F	ASTM D746
Oxygen Index	24 %	24 %	ISO 4589
Glow Wire Test	775 Å°C	1430 Å°F	IEC 60695-2-13
	960 Å°C @Thickness 3.00 mm	1760 Å°F @Thickness 0.118 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.30e+15 ohm-cm	3.30e+15 ohm-cm	ASTM D257
Dielectric Constant	2.6 @Frequency 1.00e+6 Hz	2.6 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	25.5 kV/mm @Thickness 2.00 mm	648 kV/in @Thickness 0.0787 in	in oil; IEC 60243-1
Dissipation Factor	0.0030 @Frequency 1.00e+6 Hz	0.0030 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Smoke Density on 0.5mm plaque, Flame, Ds, max	96	ASTM E 662
Smoke Density on 0.5mm plaque, Non-flame, Ds, max	56	ASTM E 662
VW-1	Pass	UL 1581

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China